

Queen's Marine Service Report

Name of Vessel : MV Atlantic Huron
Name of Contact : Sergiy Katayev
Owner's Name : CSL
Equipment : Lips OD box
W.O. # : SW-07-1443
Place of Attendance : At Anchor off Sarnia
Date of Attendance : 06/27/2020

SUBJECT: Atlantic Huron O.D. box report

Saturday June 27, 2020

When we got to the vessel the chief had already removed the top cover of the o.d. box. You could see that the bottom bearing on the feedback rod had come out of its position and was jammed against the side of the feedback arm. This deflected the arm in such a way that it went full ahead and seized in this position.

I removed the actuator arm and the manual control arm from the outside of the o.d. box. I used a piece of threaded rod and a spacer to draw the shaft out from the feedback arm inside the o.d. box. Once the shaft was removed we could then move the arm to release it from where it was jammed and remove it for further inspection. Once it was removed everything that appeared to be bent straightened back into position. The feedback arm had some minor damage from being jammed and the bearing was damaged. I visually checked the arm for cracks and straightness. The arm had no cracks and appeared to be straight. After cleaning up the minor damage and replacing the bearing with a spare the chief had it ready to be reinstalled. The shaft also was checked for damage and straightness in a lathe. The shaft had no damage and was straight and was able to be reinstalled.

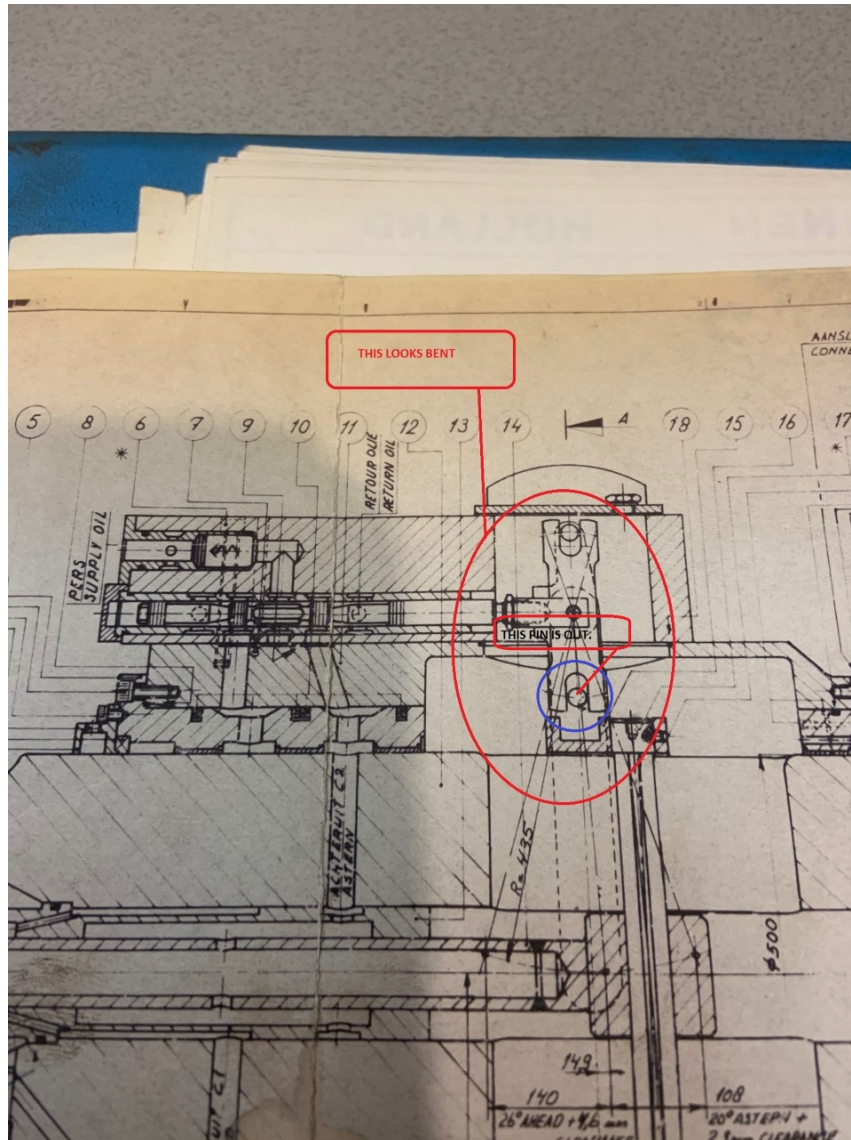
As we were checking the o.d. box to find out why the bearing was able to move completely out of its slot in the feedback arm. It was found that the o.d. box unit was able to be moved axially on the shaft at least an inch or more. This is the result of a worn out torque stand. I was able to make some shims and wedged them into the worn area of the torque stand and secured them using a hose clamp. This is a temporary repair and must be repaired properly as soon as possible or similar failure may occur. To aid in preventing failure pitch control should be limited to 75 percent.

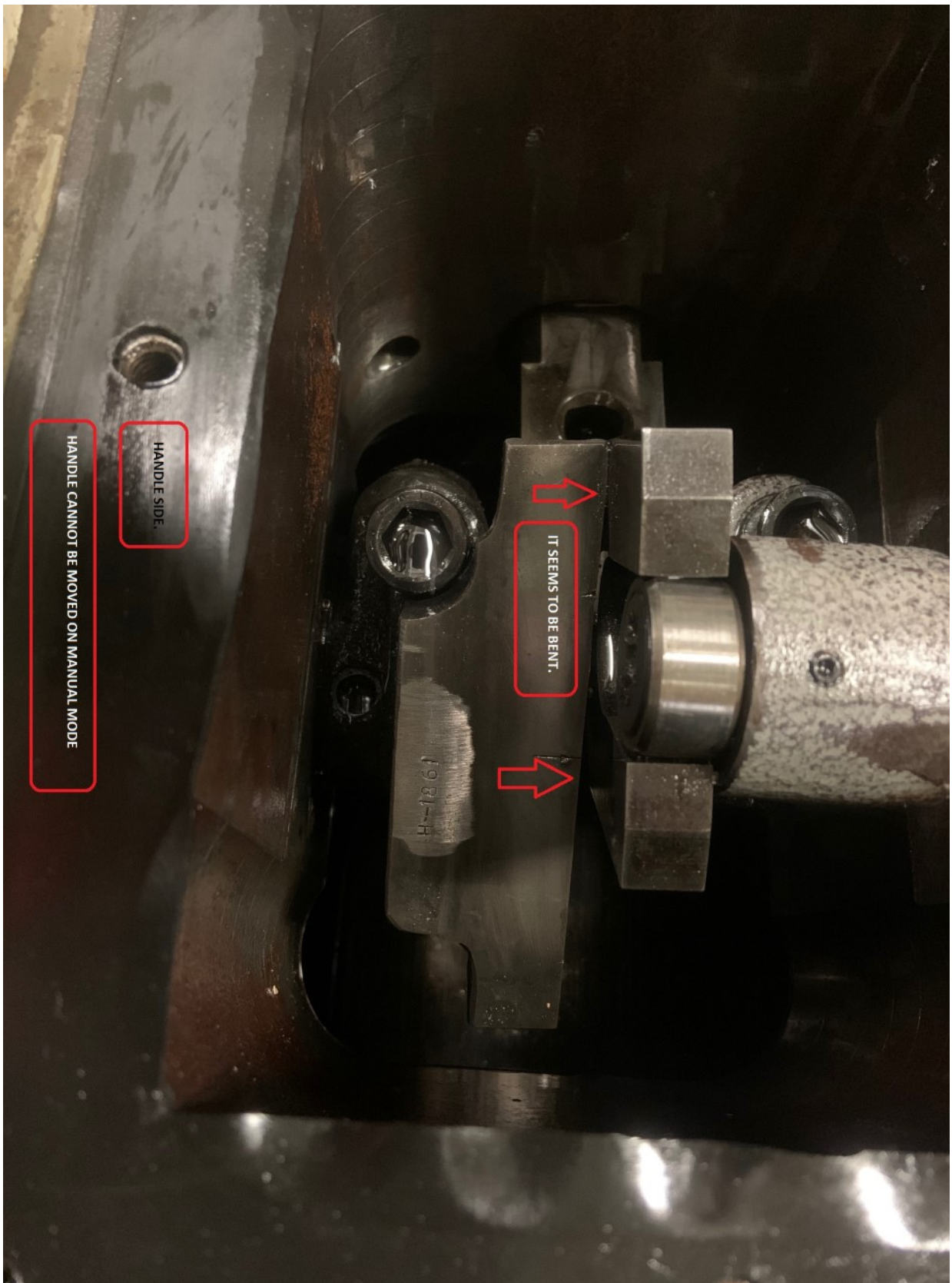
The o.d. box was reassembled and filled with oil. We tested pitch control both ahead and stern.

Everything worked as it should.

Richard Hotke







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